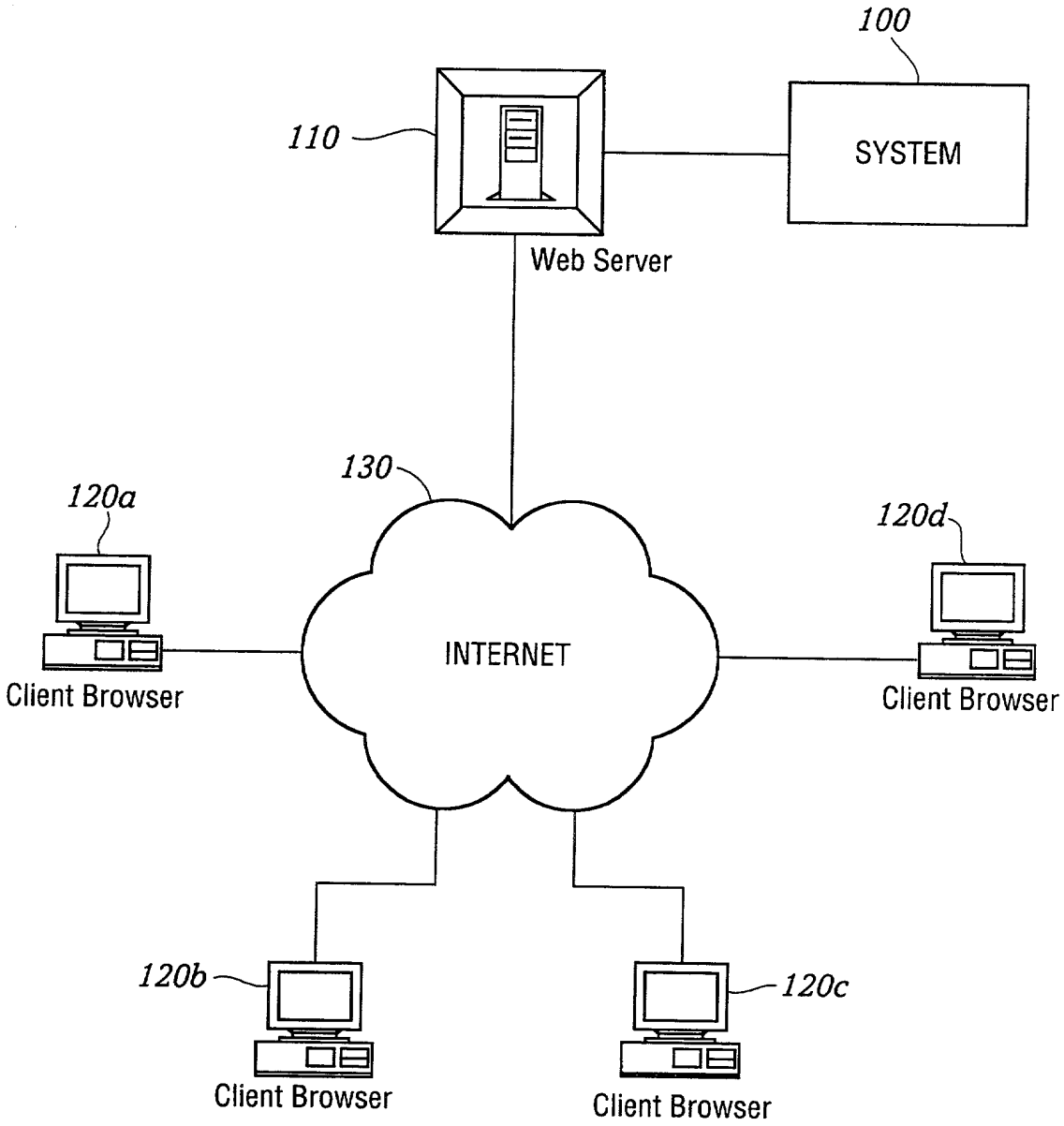

100
110
SYSTEM
Web Server
130
120a
120d
INTERNET
Client Browser
Client Browser
120b
120c
Client Browser
Client Browser

FIG. 1

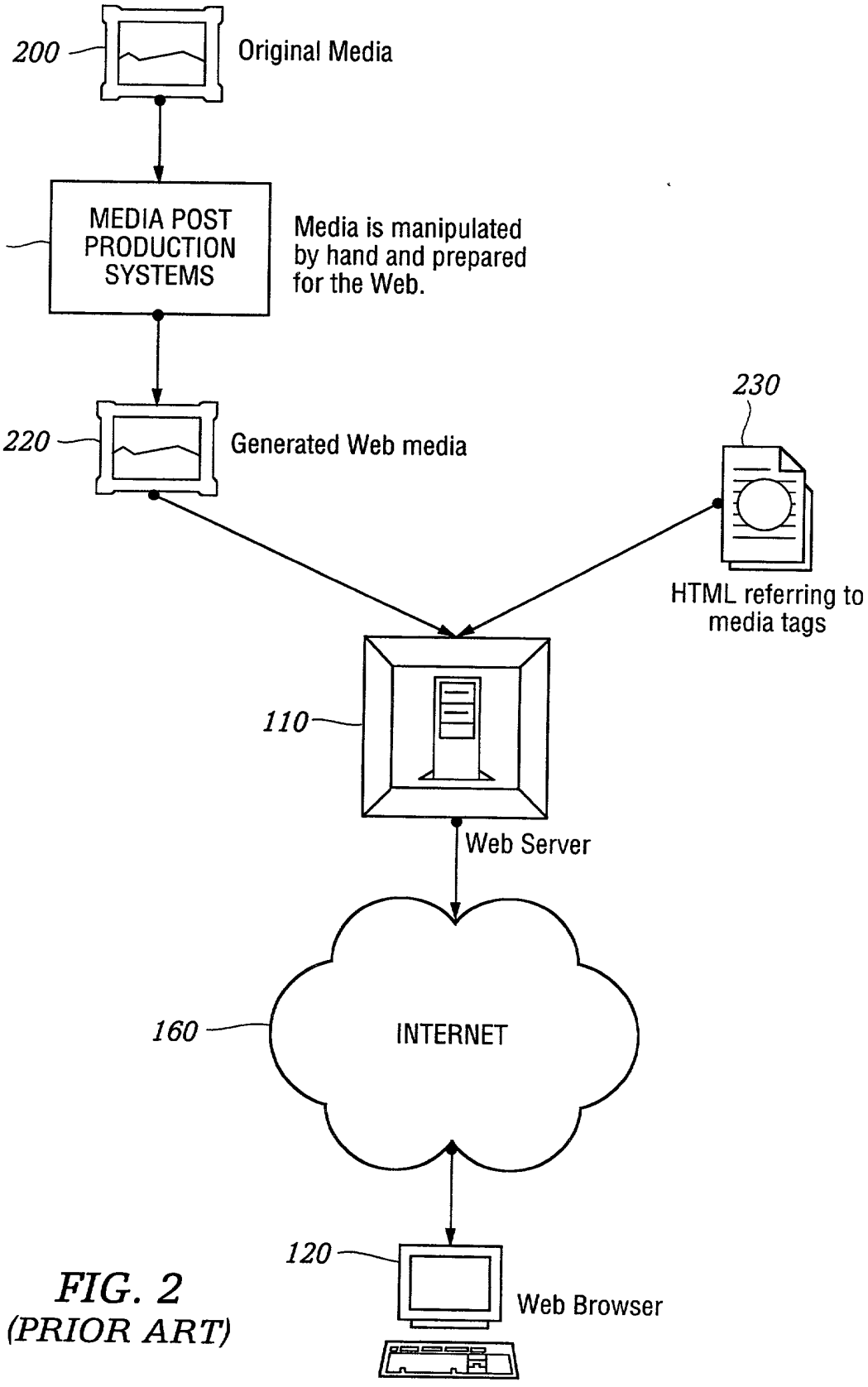


FIG. 2
(PRIOR ART)

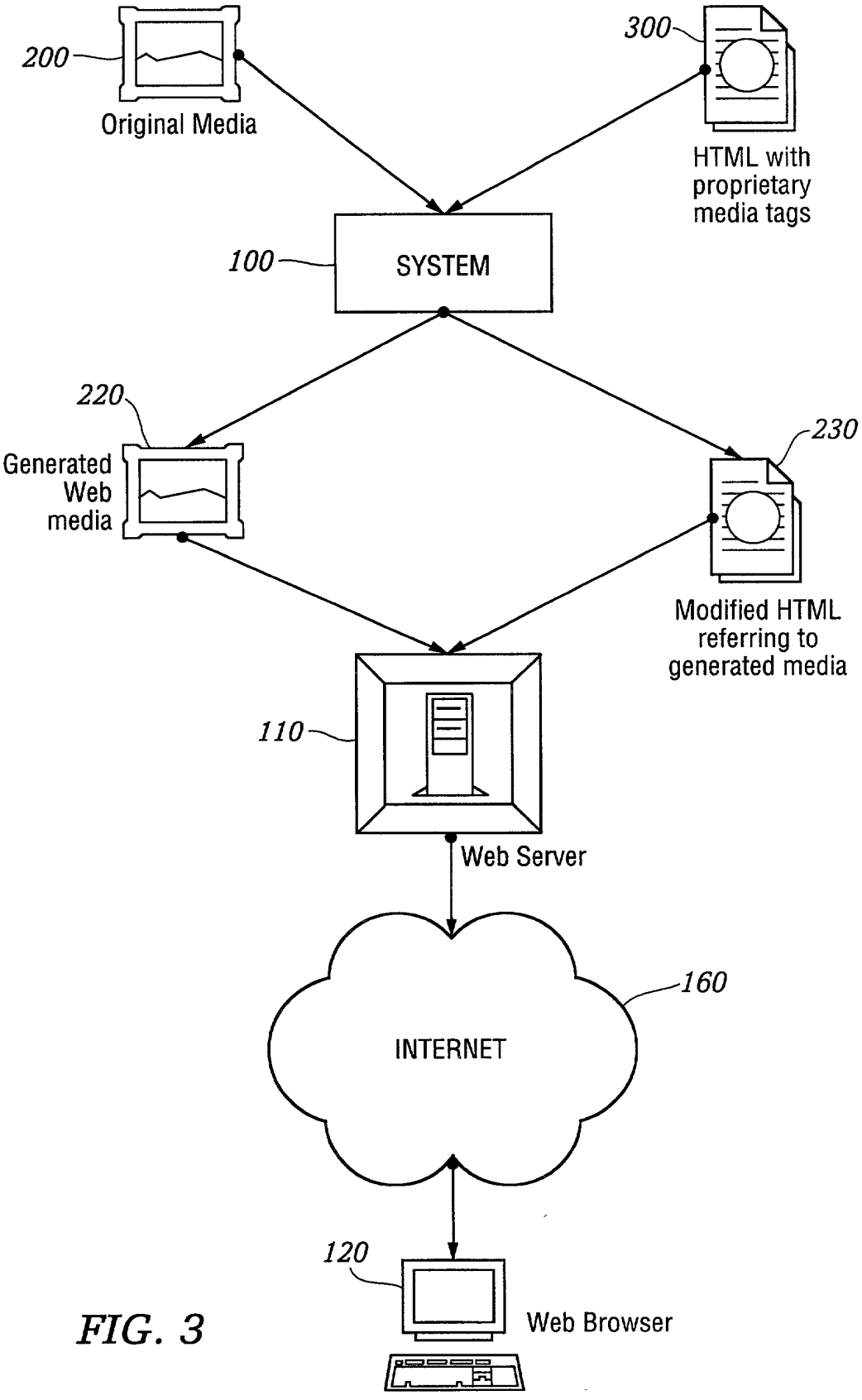

200
Original Media
300
HTML with proprietary media tags
100
SYSTEM
220
Generated Web media
230
Modified HTML referring to generated media
110
Web Server
160
INTERNET
120
Web Browser

FIG. 3

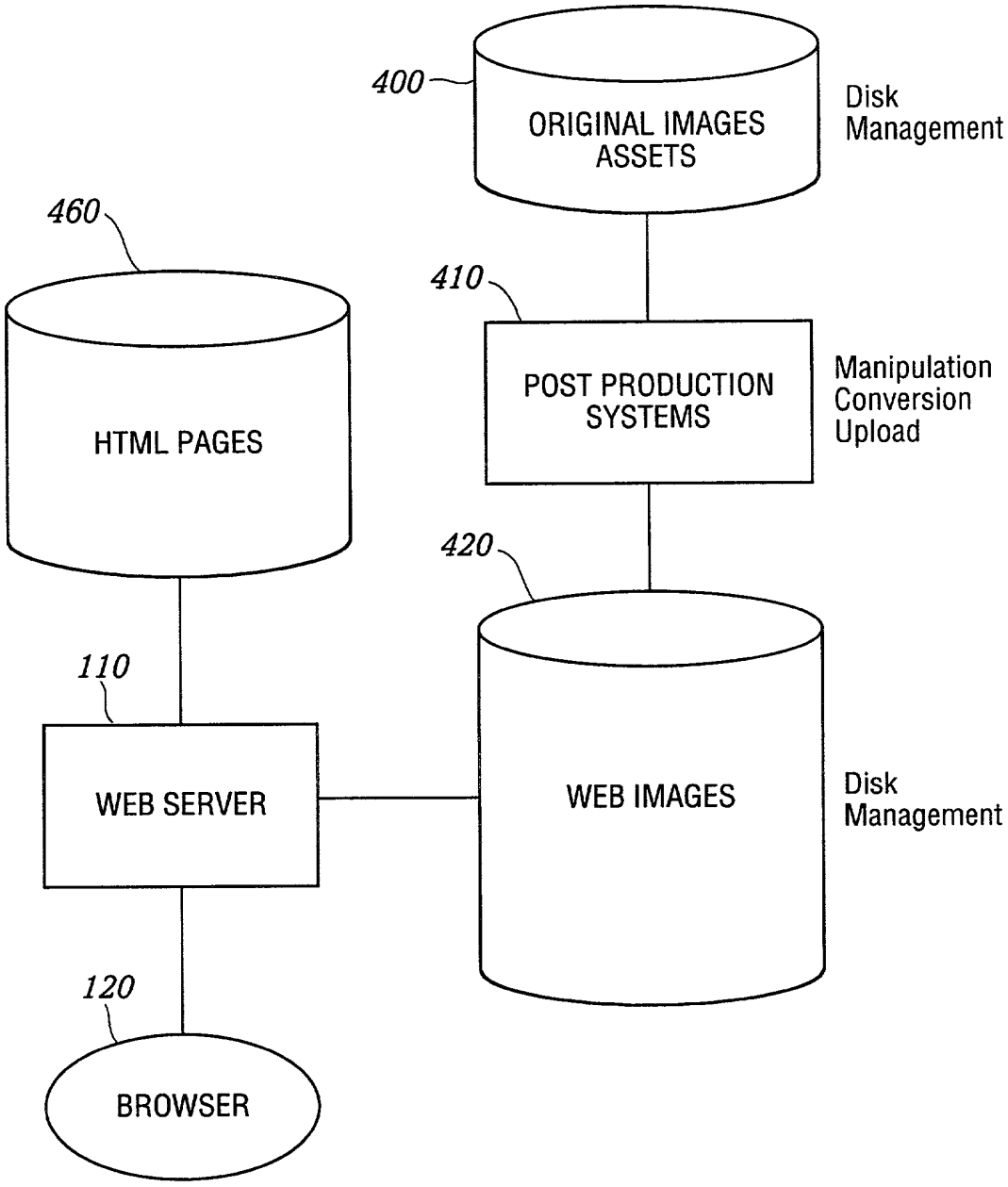


FIG. 4
(PRIOR ART)

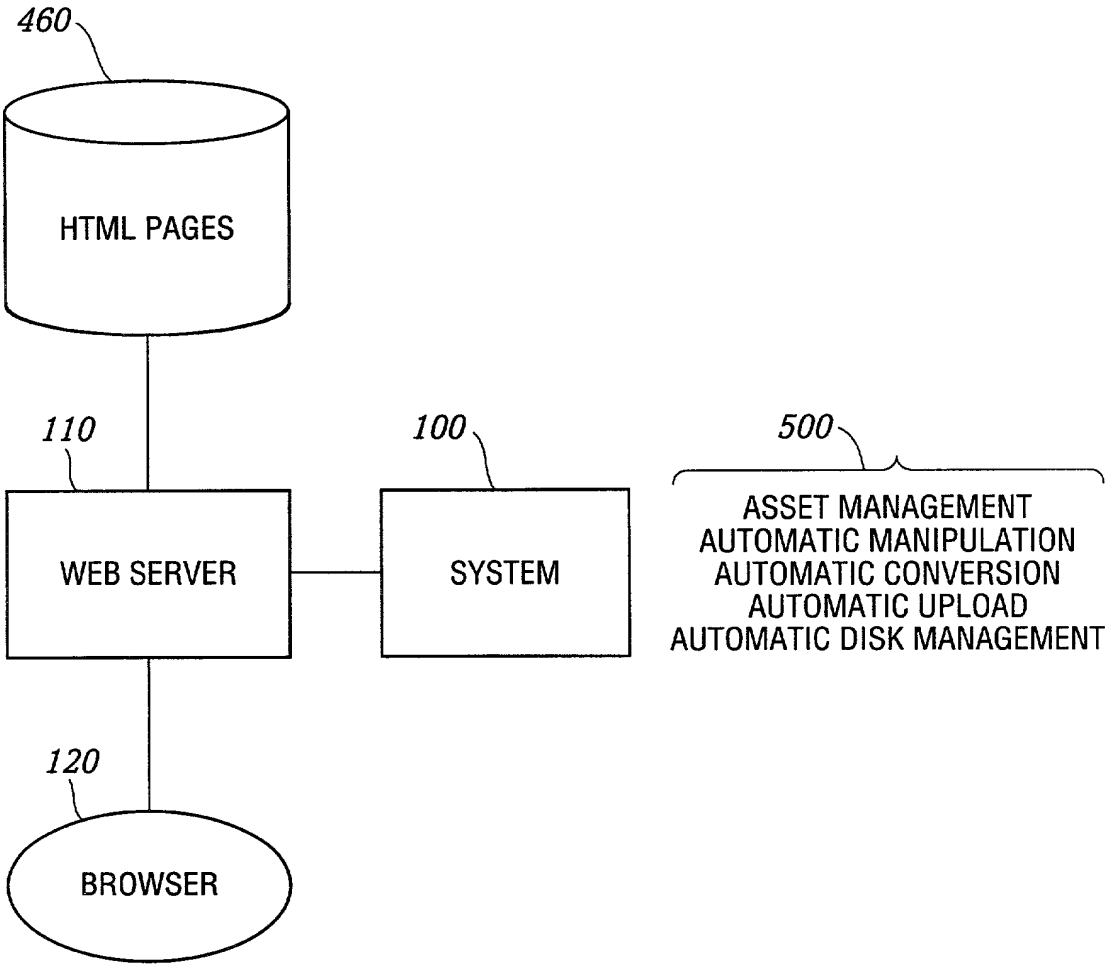

460
HTML PAGES
110
100
500
WEB SERVER
SYSTEM
ASSET MANAGEMENT
AUTOMATIC MANIPULATION
AUTOMATIC CONVERSION
AUTOMATIC UPLOAD
AUTOMATIC DISK MANAGEMENT
120
BROWSER

FIG. 5

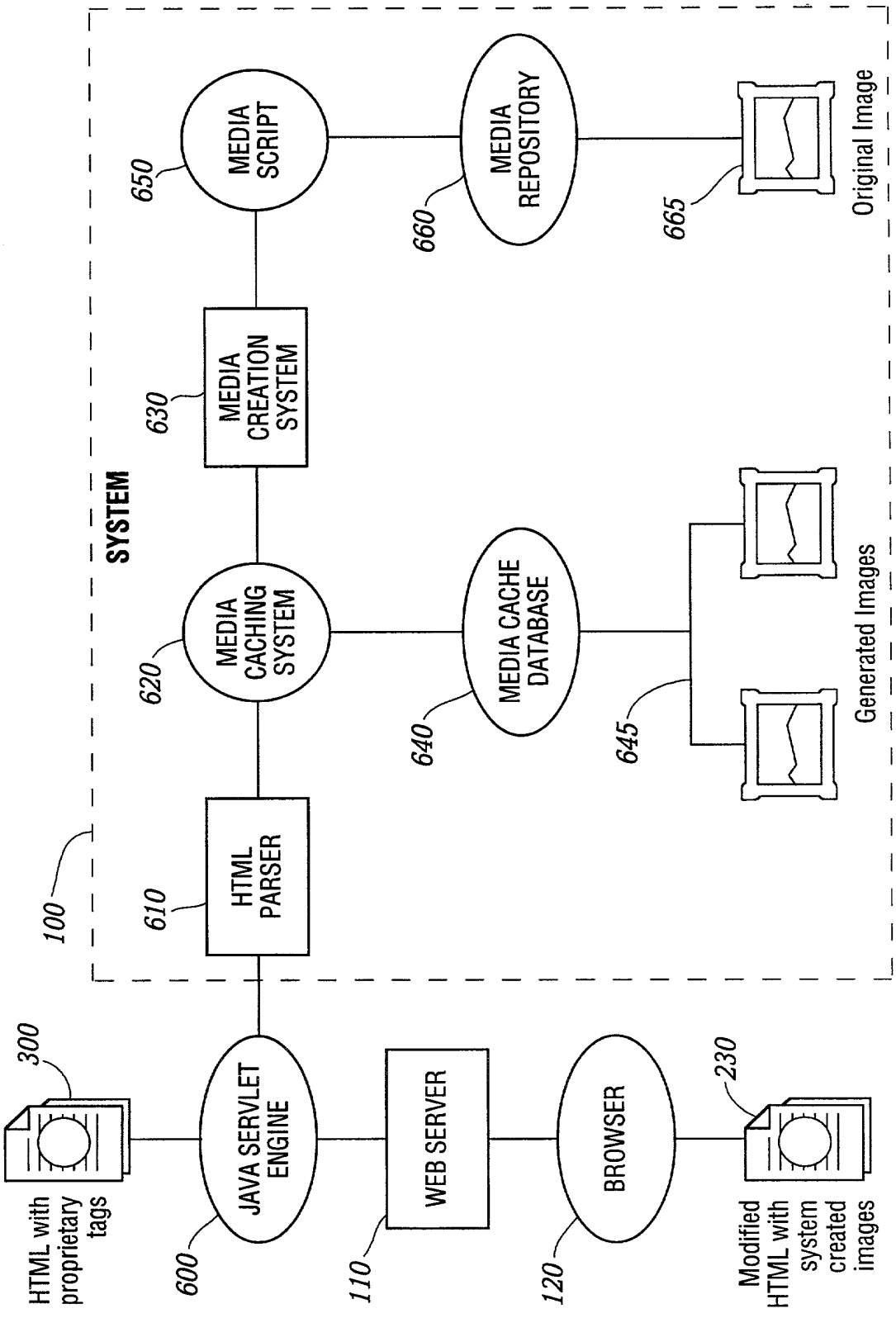

SYSTEM
100
HTML PARSER
610
MEDIA CACHING SYSTEM
620
MEDIA CREATION SYSTEM
630
MEDIA SCRIPT
650
MEDIA CACHE DATABASE
640
MEDIA REPOSITORY
660
Generated Images
645
Original Image
665
HTML with proprietary tags
300
JAVA SERVLET ENGINE
600
WEB SERVER
110
BROWSER
120
Modified HTML with system created images
230

FIG. 6

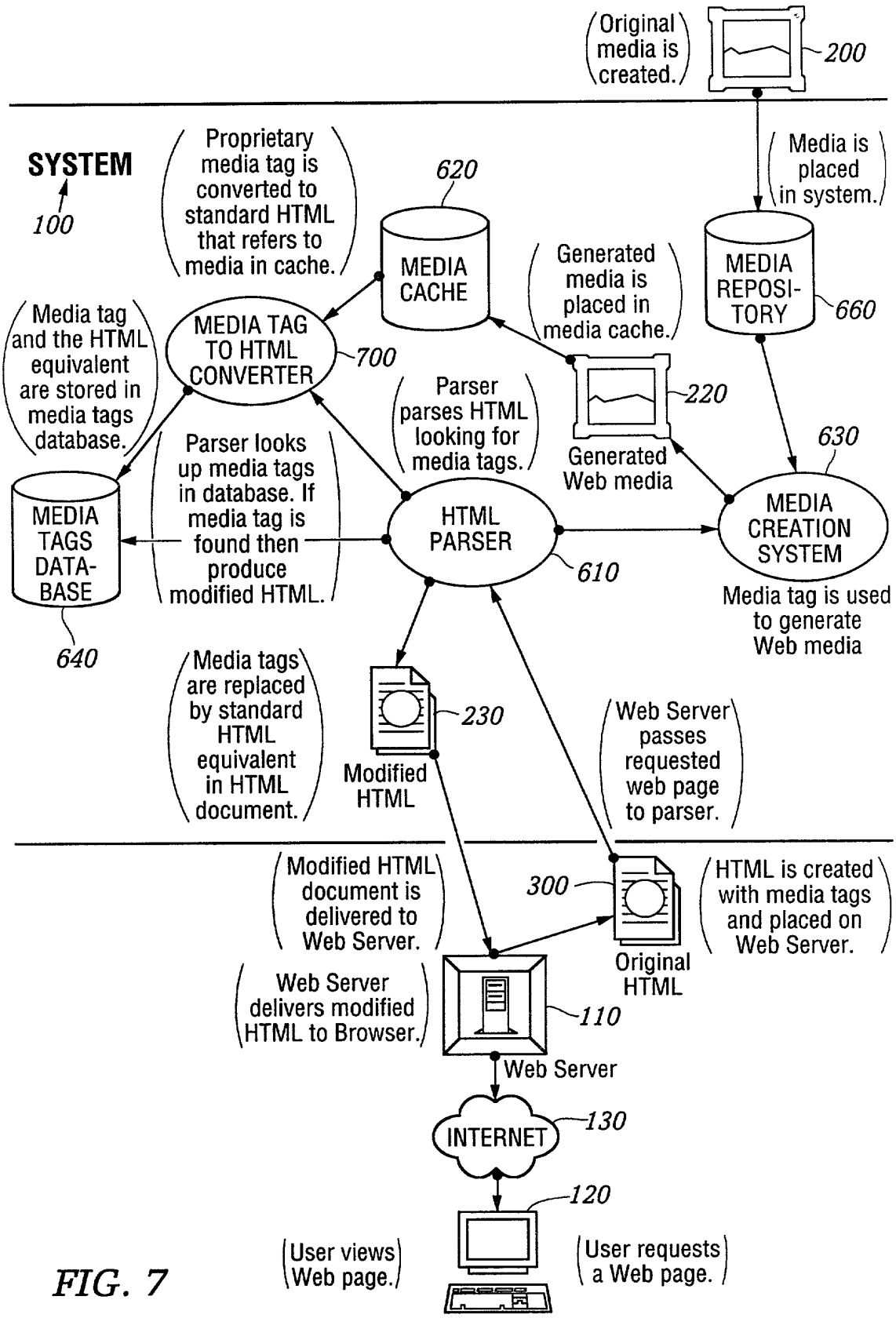

Original media is created.
200
SYSTEM
100
Proprietary media tag is converted to standard HTML that refers to media in cache.
620
MEDIA CACHE
Media is placed in system.
MEDIA REPOSI-TORY
660
Generated media is placed in media cache.
Media tag and the HTML equivalent are stored in media tags database.
MEDIA TAG TO HTML CONVERTER
700
220
Parser parses HTML looking for media tags.
Generated Web media
630
Parser looks up media tags in database. If media tag is found then produce modified HTML.
MEDIA TAGS DATA-BASE
HTML PARSER
610
MEDIA CREATION SYSTEM
Media tag is used to generate Web media
640
Media tags are replaced by standard HTML equivalent in HTML document.
230
Modified HTML
Web Server passes requested web page to parser.
Modified HTML document is delivered to Web Server.
300
HTML is created with media tags and placed on Web Server.
Original HTML
Web Server delivers modified HTML to Browser.
110
Web Server
INTERNET
130
120
User views Web page.
User requests a Web page.

FIG. 7

AUTHORING FLOWCHART

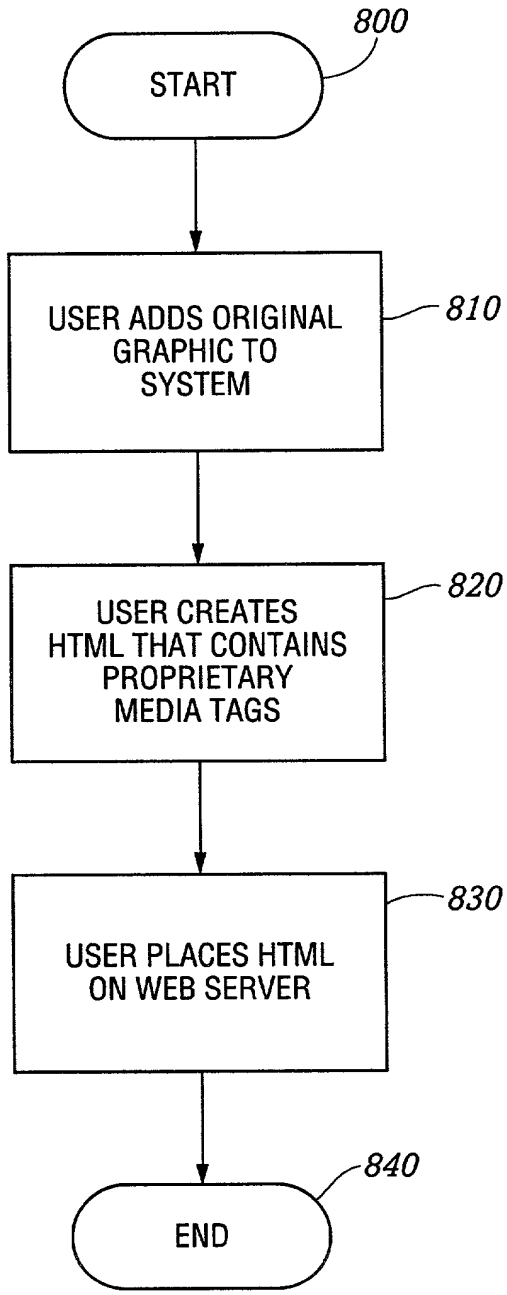


FIG. 8

HTML PARSING FLOWCHART

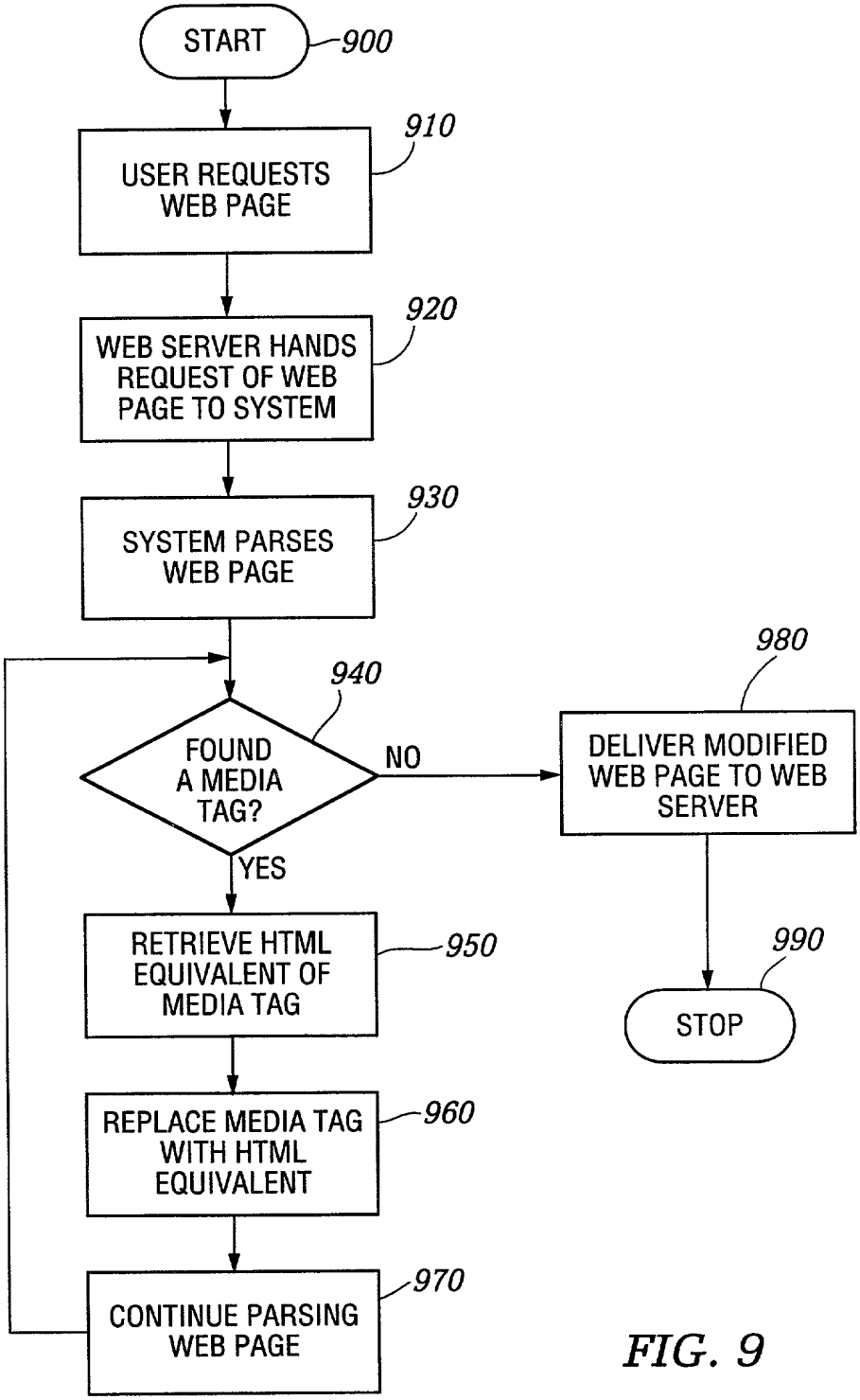


FIG. 9

MEDIA CREATION FLOWCHART

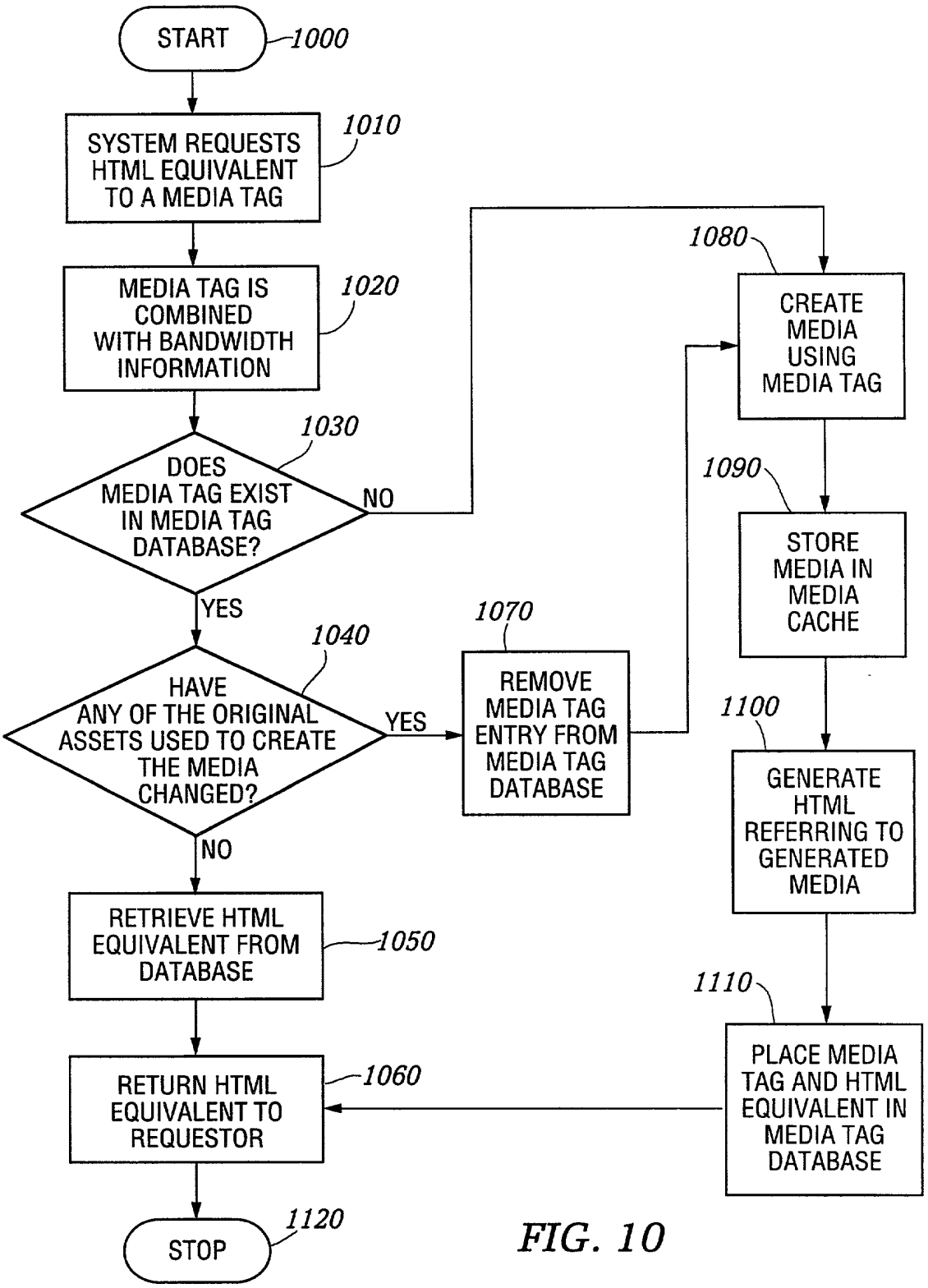


FIG. 10

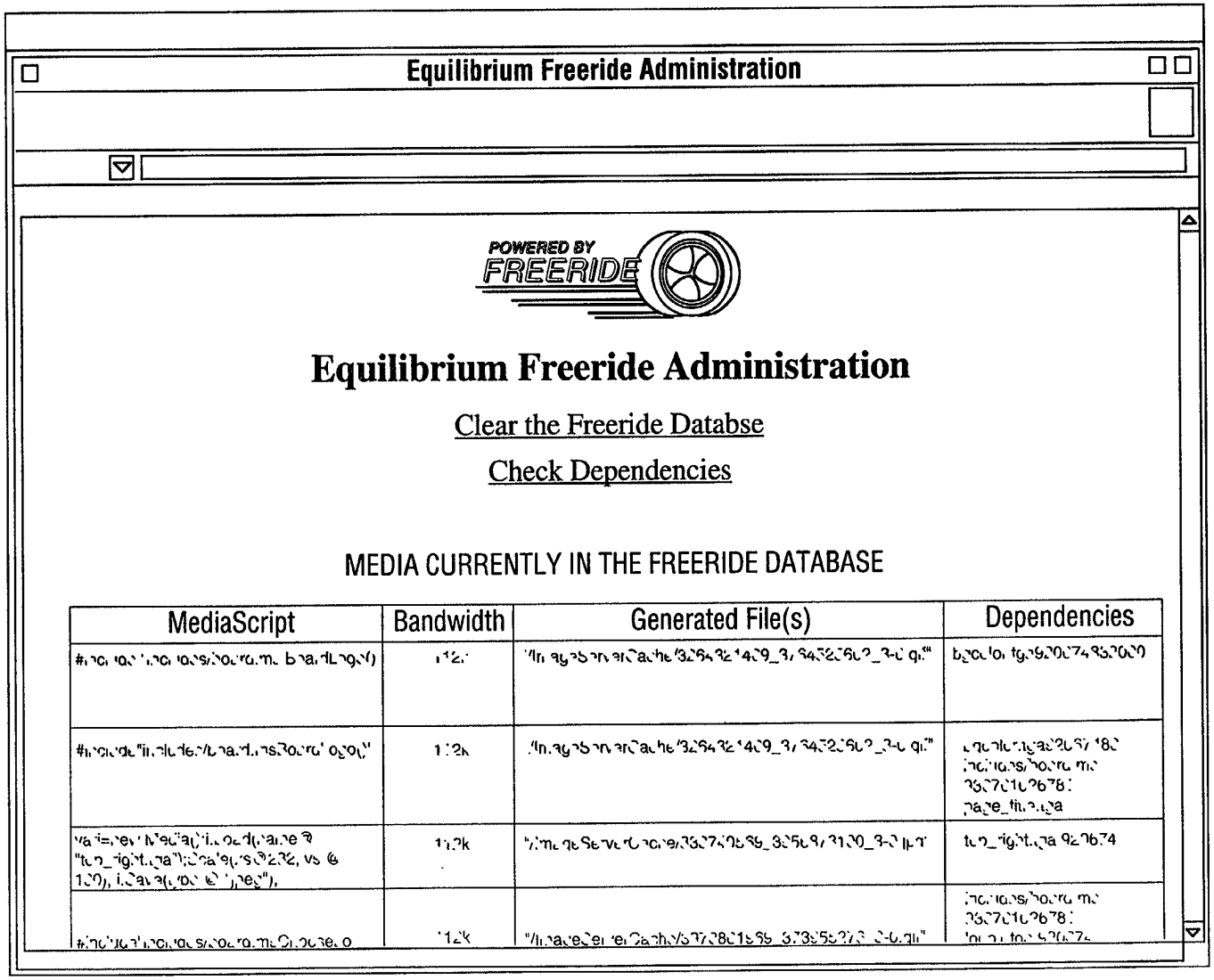

Equilibrium Freeride Administration
POWERED BY FREERIDE
Equilibrium Freeride Administration
Clear the Freeride Databse
Check Dependencies
MEDIA CURRENTLY IN THE FREERIDE DATABASE
MediaScript
Bandwidth
Generated File(s)
Dependencies

FIG. 11

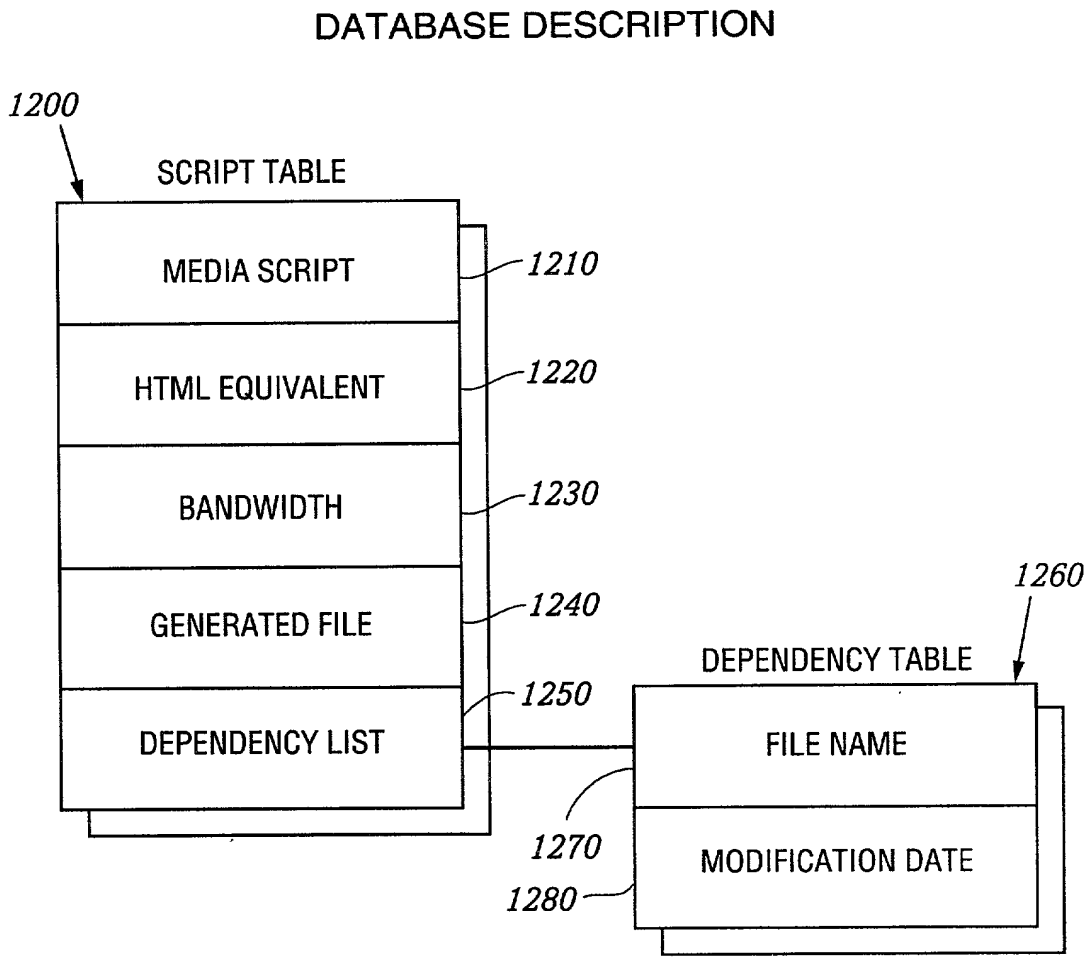

DATABASE DESCRIPTION
1200
SCRIPT TABLE
MEDIA SCRIPT
1210
HTML EQUIVALENT
1220
BANDWIDTH
1230
GENERATED FILE
1240
DEPENDENCY LIST
1250
1260
DEPENDENCY TABLE
FILE NAME
1270
MODIFICATION DATE
1280

FIG. 12

ORIGINAL IMAGES

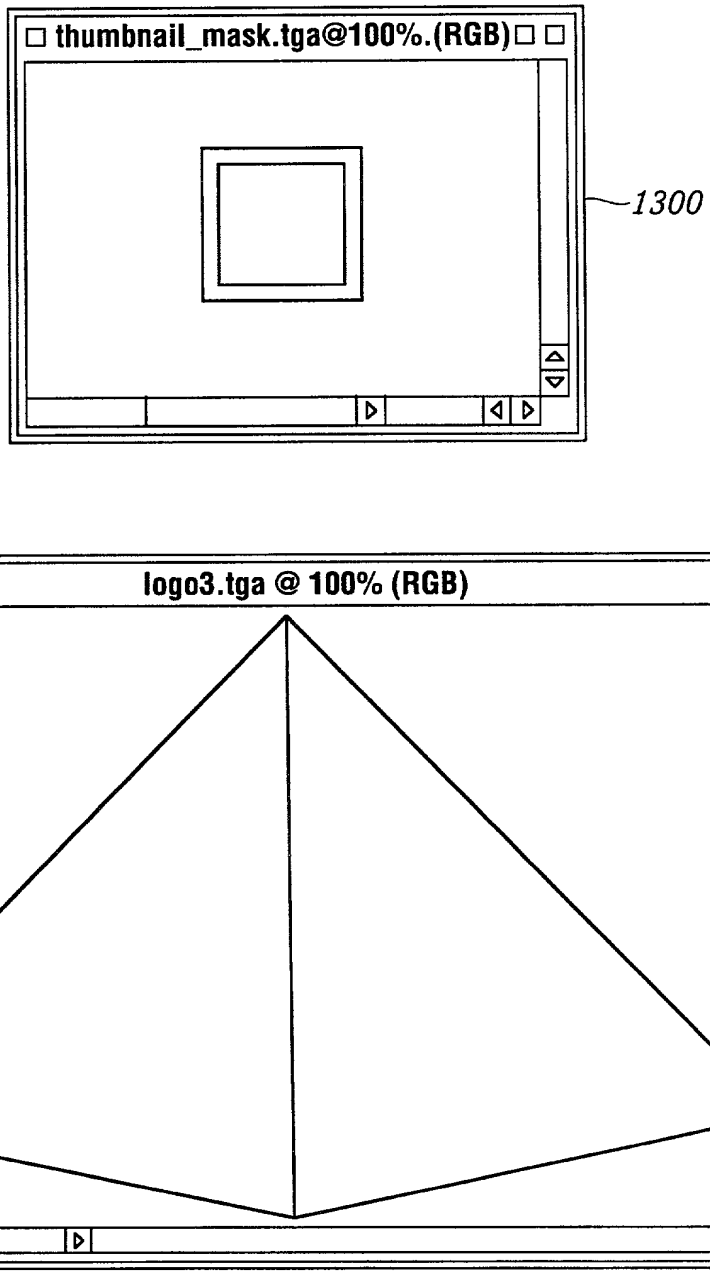


FIG.13

HTML DOCUMENT WITH PROPRIETARY TAG

1400

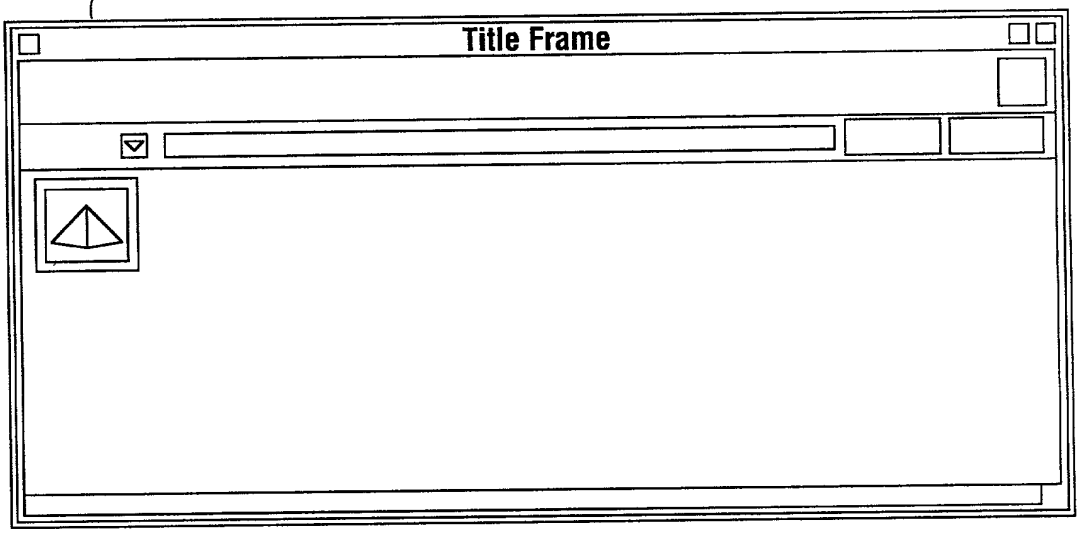
image.html

```
<html>
<head>
<title>
Title Frame
</title>3
>/head>
<body>
<imgsrc= <freeride:image>var i = new Media(), i.Load(name @ logo3.tga);
i.Scale(ys @ 65, contstrain @ true, alg @ "smooth"); i.Crop(xs@ 60,ys@60,
padcolor @ 0xffffff); var i2 = new Media(); i2.Load(name @
thumbnail_mask.tga), i.Composite(source @ i2); i.Scale(xs, @ 60, ys@60,alg
@ "smooth"), i.Reduce(); iSave(type @ "gif"), </freeride:image>
height=60 width=60 border=0><br>
</body>
</html>
```

FIG.14

1500

HTML DOCUMENT VIEWED IN BROWSER



1510

HTML DOCUMENT SOURCE

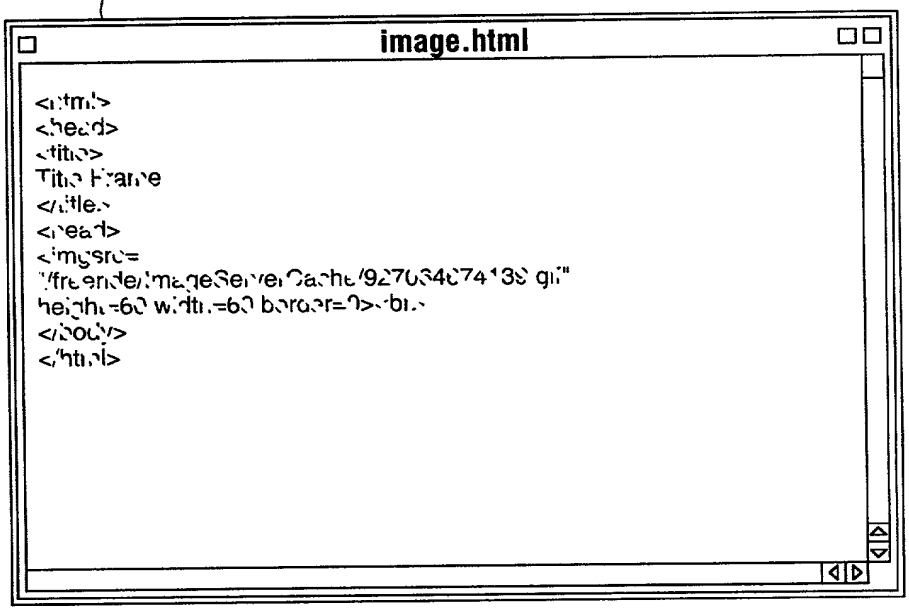


FIG.15

GENERATED GIF IMAGE

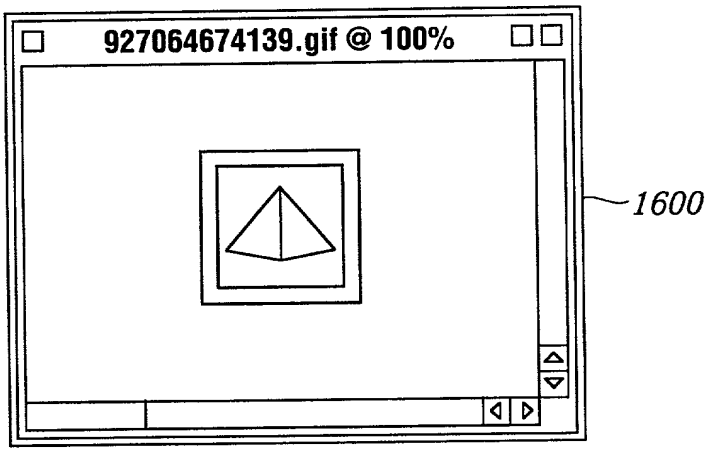


FIG.16

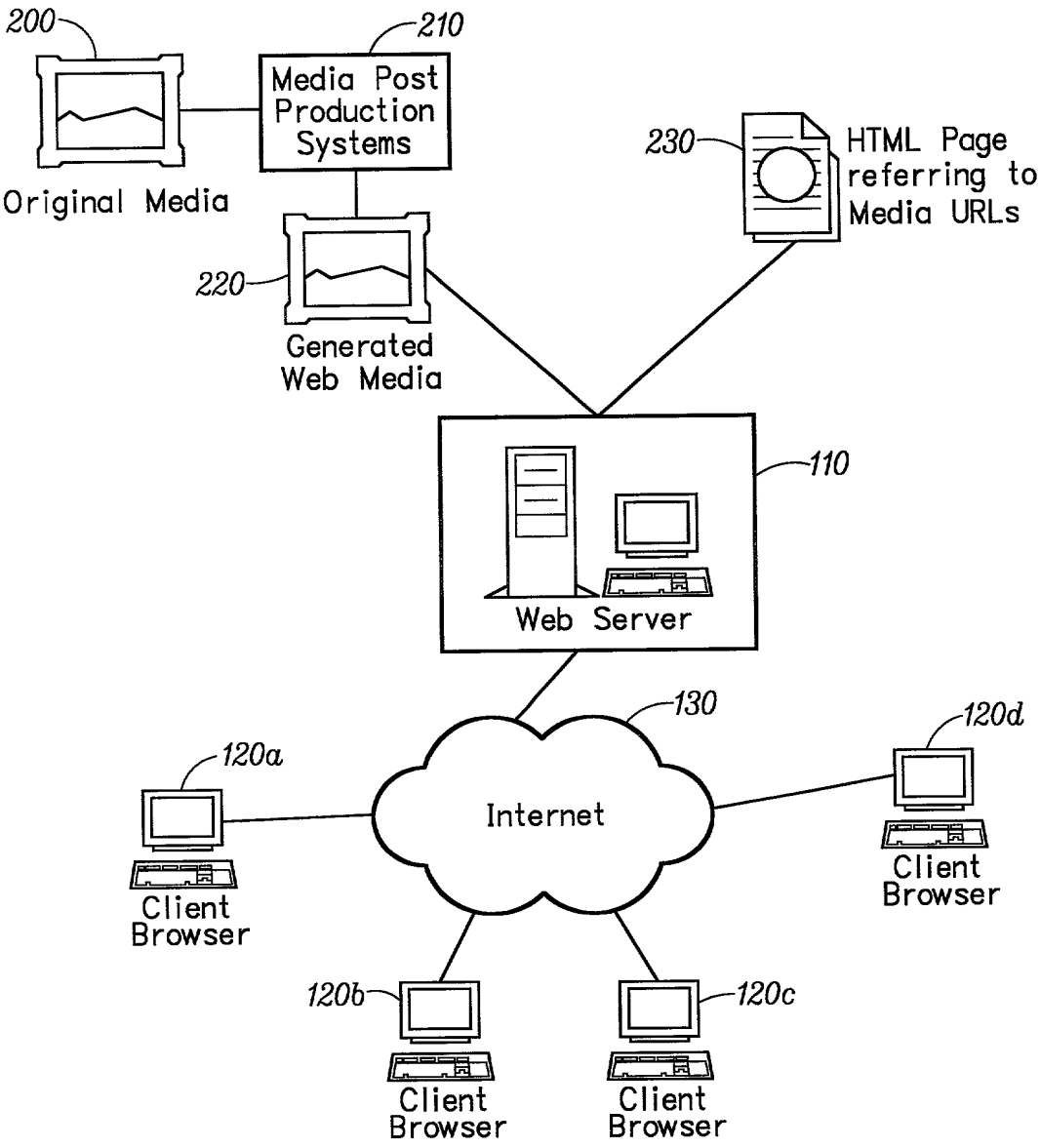

200
210
Media Post Production Systems
Original Media
230
HTML Page referring to Media URLs
220
Generated Web Media
110
Web Server
130
120a
120d
Internet
Client Browser
Client Browser
120b
120c
Client Browser
Client Browser

FIG. 17

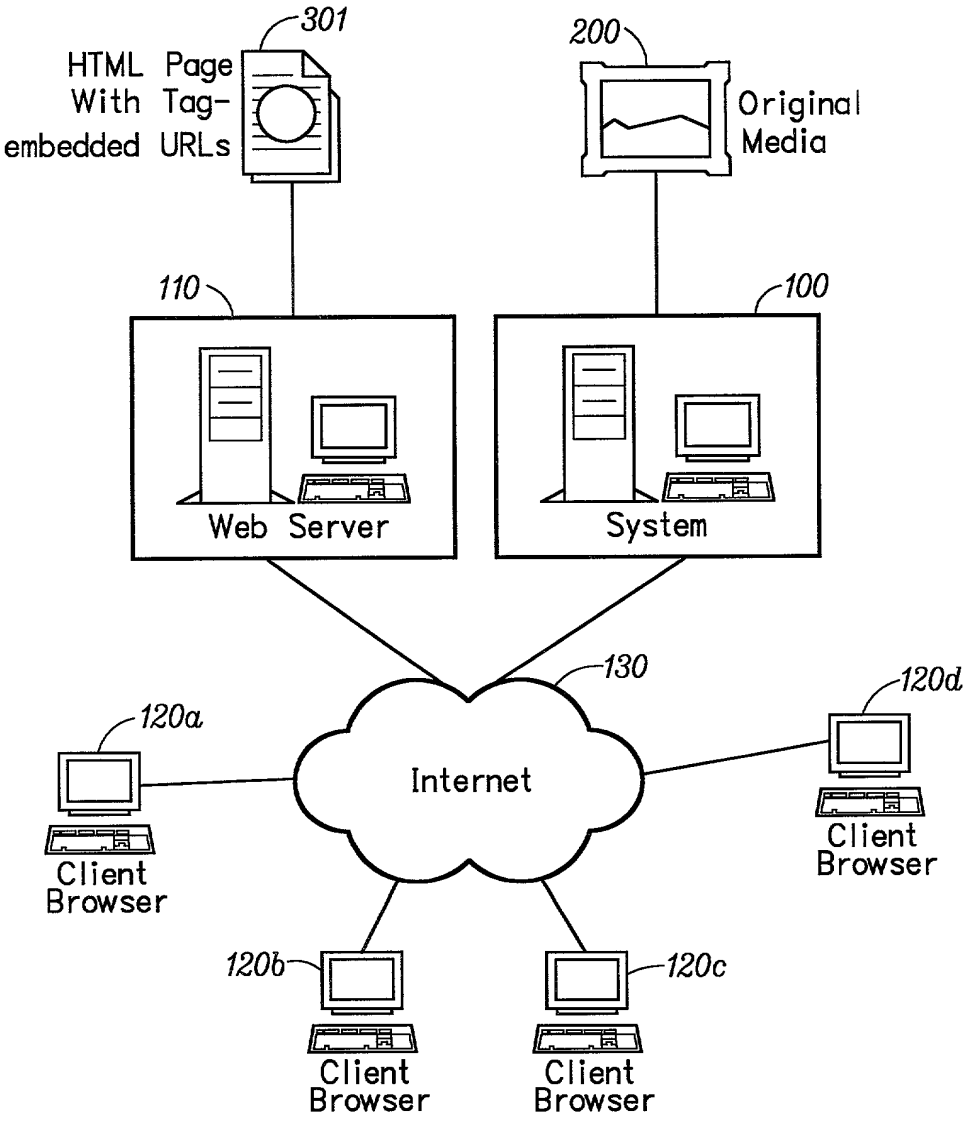

301
HTML Page
With Tag-
embedded URLs
200
Original
Media
110
100
Web Server
System
130
120a
120d
Internet
Client
Browser
Client
Browser
120b
120c
Client
Browser
Client
Browser

FIG. 18

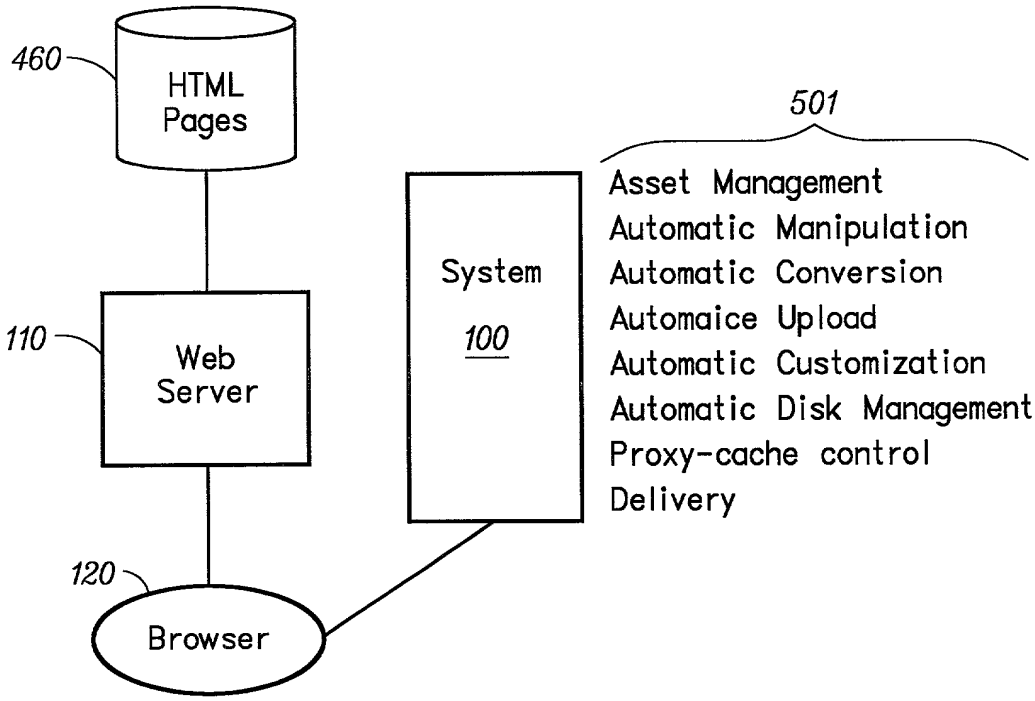

460
HTML Pages
110
Web Server
120
Browser
System
100
501
Asset Management
Automatic Manipulation
Automatic Conversion
Automaice Upload
Automatic Customization
Automatic Disk Management
Proxy-cache control
Delivery

FIG. 19

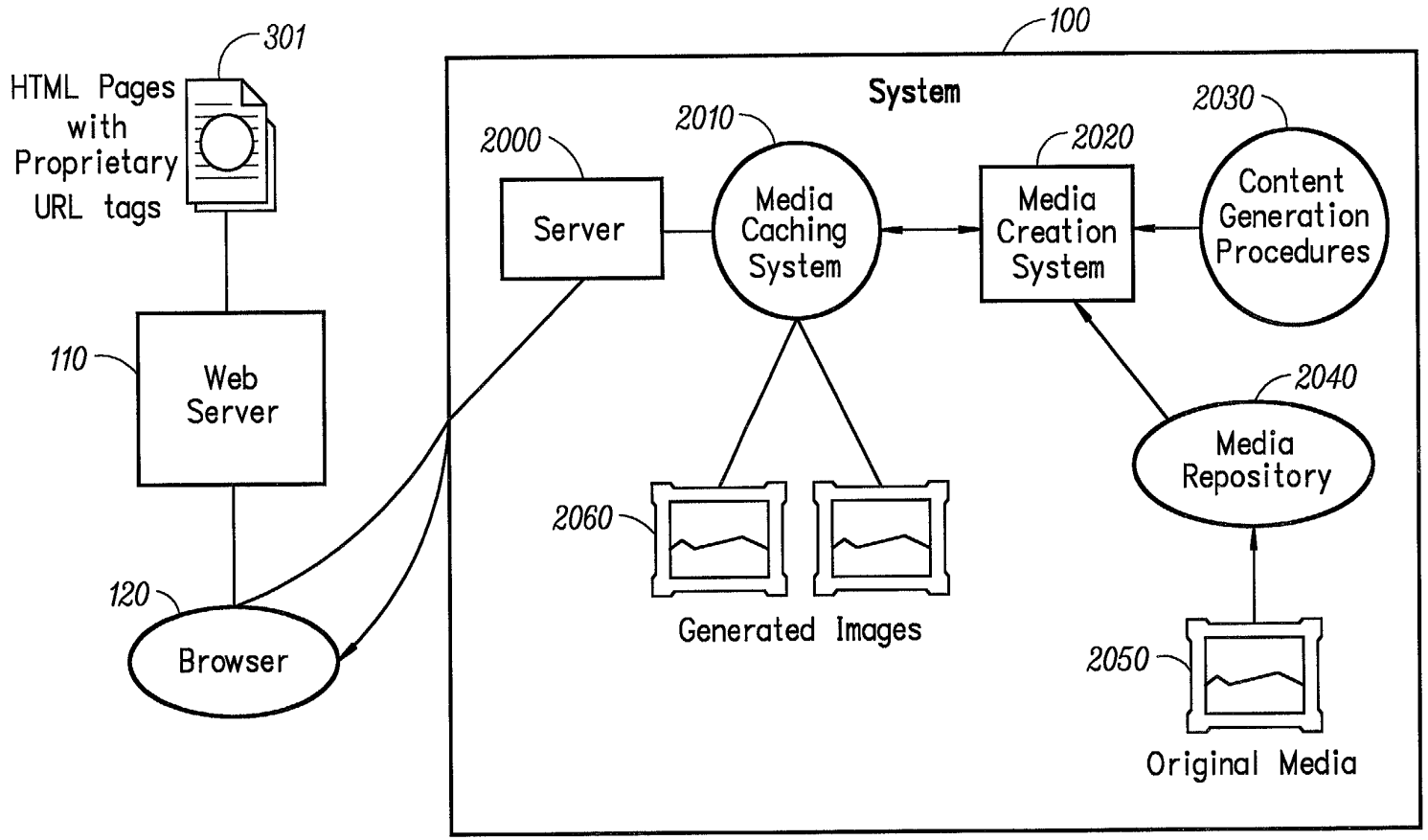

301
HTML Pages with Proprietary URL tags
110
Web Server
120
Browser
100
System
2000
Server
2010
Media Caching System
2020
Media Creation System
2030
Content Generation Procedures
2040
Media Repository
2060
Generated Images
2050
Original Media

FIG. 20

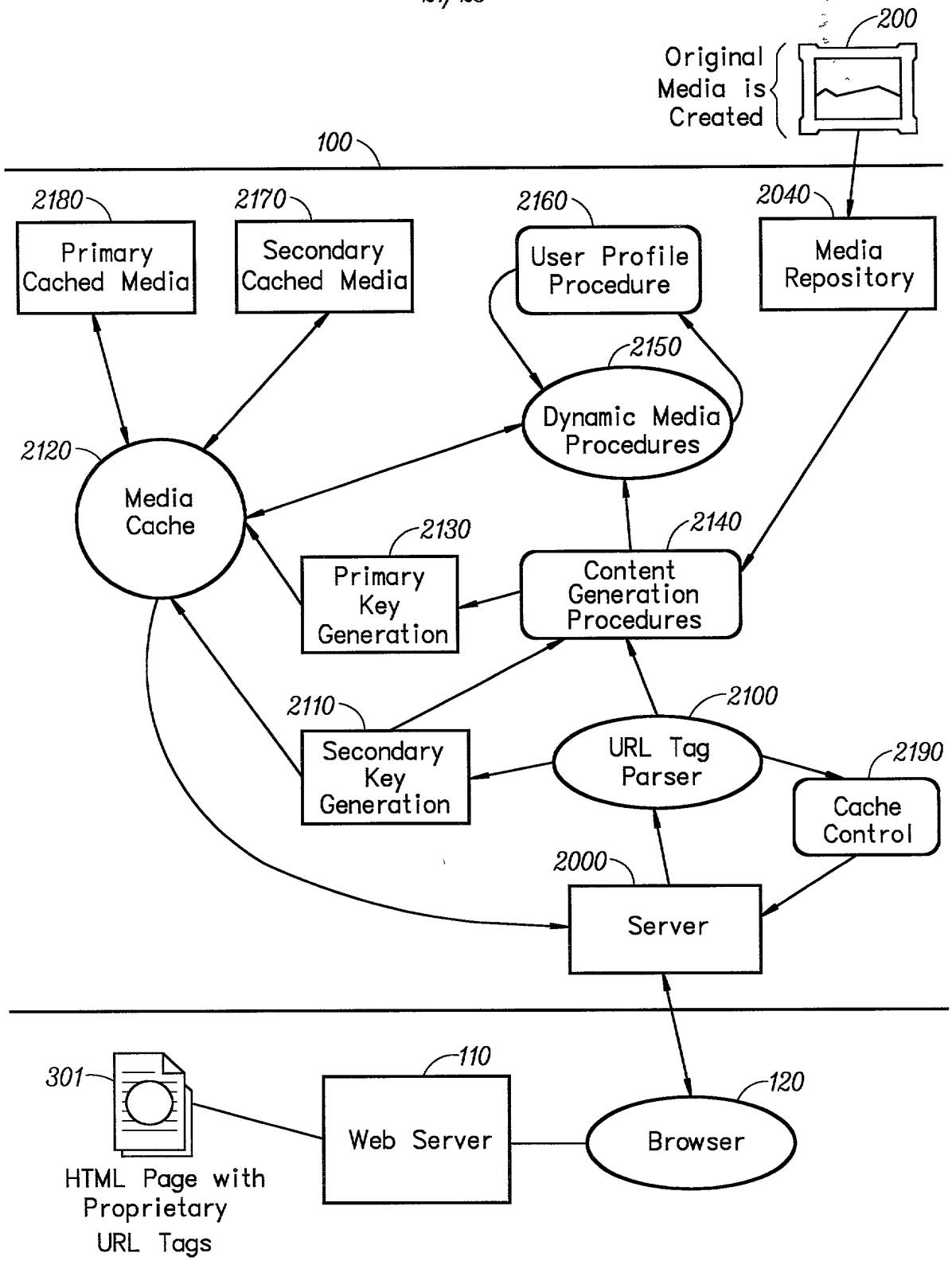

200
Original Media is Created
100
2180
Primary Cached Media
2170
Secondary Cached Media
2160
User Profile Procedure
2040
Media Repository
2150
Dynamic Media Procedures
2120
Media Cache
2130
Primary Key Generation
2140
Content Generation Procedures
2110
Secondary Key Generation
2100
URL Tag Parser
2190
Cache Control
2000
Server
301
HTML Page with Proprietary URL Tags
110
Web Server
120
Browser

FIG. 21

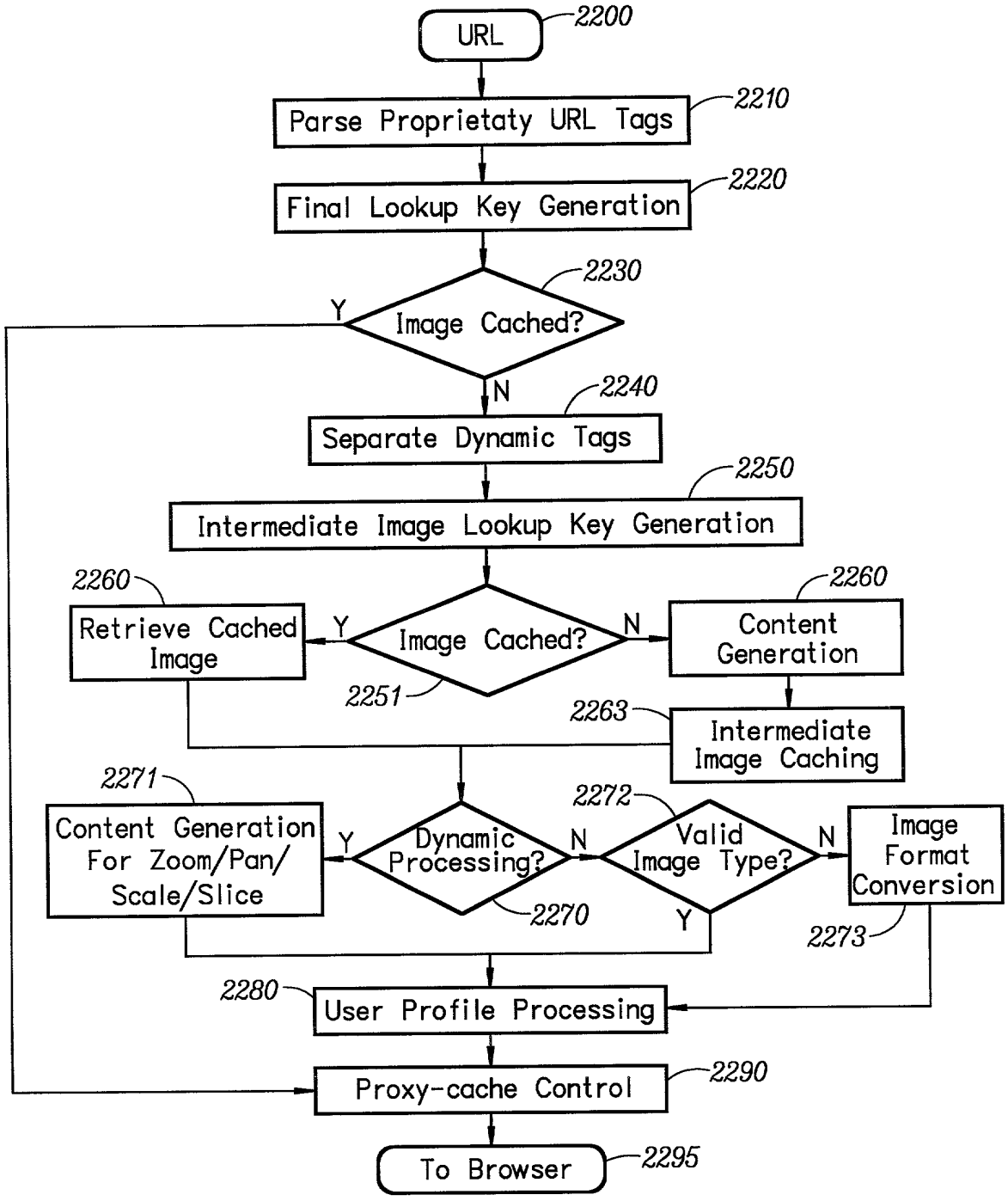

URL
2200
Parse Proprietaty URL Tags
2210
Final Lookup Key Generation
2220
Image Cached?
2230
Y
N
Separate Dynamic Tags
2240
Intermediate Image Lookup Key Generation
2250
2260
Retrieve Cached Image
Image Cached?
2251
Content Generation
2260
2263
Intermediate Image Caching
2271
Content Generation For Zoom/Pan/ Scale/Slice
Dynamic Processing?
2270
2272
Valid Image Type?
Image Format Conversion
2273
2280
User Profile Processing
Proxy-cache Control
2290
To Browser
2295

FIG. 22

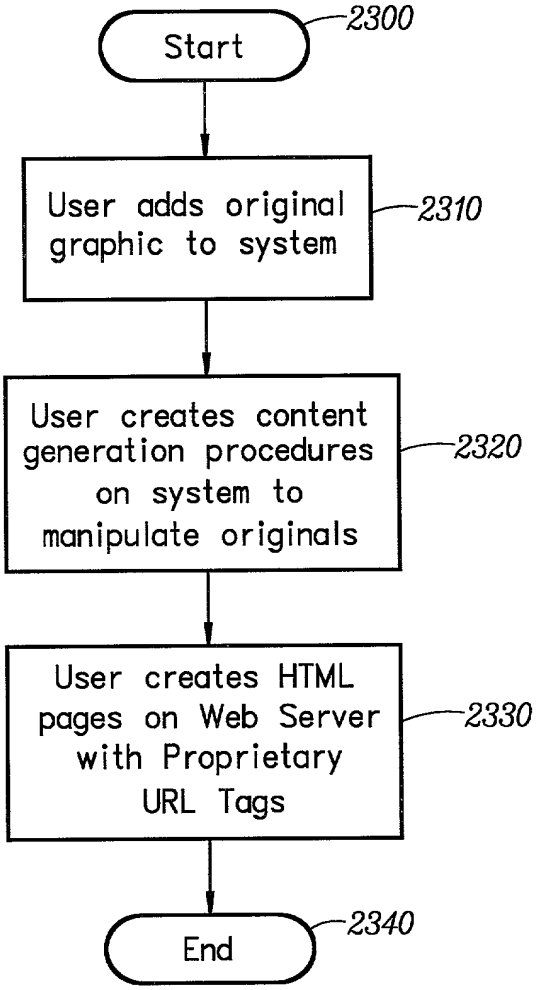

Start
2300
User adds original graphic to system
2310
User creates content generation procedures on system to manipulate originals
2320
User creates HTML pages on Web Server with Proprietary URL Tags
2330
End
2340

FIG. 23